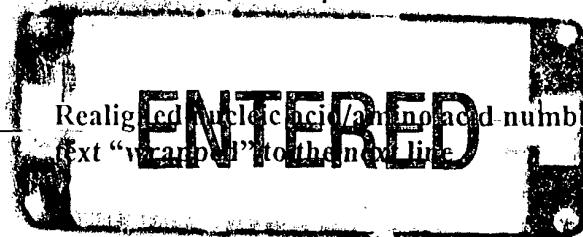


1FW16

CRF Errors Edited by the STIC Systems Branch

Serial Number: 09/673,302E

CRF Edit Date: 7/30/04
Edited by: AC



Realigned nucleic acid/aminoacid numbers/text in cases where the sequence text "wrapped" to the next line.

Corrected the SEQ ID NO. Sequence numbers edited were:

Inserted or corrected a nucleic number at the end of a nucleic line. SEQ ID NO's edited:

Deleted: invalid beginning/end-of-file text ; page numbers

Inserted mandatory headings/numeric identifiers, specifically:

Moved responses to same line as heading/numeric identifier, specifically:

Other:



IFW16

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/673,302E

DATE: 07/30/2004
 TIME: 11:08:22

Input Set : A:\PTO.AMC.txt
 Output Set: N:\CRF4\07302004\I673302E.raw

3 <110> APPLICANT: Millennium Pharmaceuticals, Inc.
 4 Law, Deborah Ann
 5 Phillips, David R.
 7 <120> TITLE OF INVENTION: Transgenic Mice Expressing Mutant GP IIIa (beta-3) Protein
 9 <130> FILE REFERENCE: MPI98-148P1USM
 11 <140> CURRENT APPLICATION NUMBER: US 09/673,302E
 12 <141> CURRENT FILING DATE: 2001-03-23
 14 <150> PRIOR APPLICATION NUMBER: US 60/115,516
 15 <151> PRIOR FILING DATE: 1998-04-15
 17 <150> PRIOR APPLICATION NUMBER: PCT/US99/08285
 18 <151> PRIOR FILING DATE: 1999-04-15
 20 <160> NUMBER OF SEQ ID NOS: 7
 22 <170> SOFTWARE: PatentIn Ver. 2.1
 24 <210> SEQ ID NO: 1
 25 <211> LENGTH: 66
 26 <212> TYPE: PRT
 27 <213> ORGANISM: Mus musculus
 29 <220> FEATURE:
 30 <223> OTHER INFORMATION: Segment of GP IIIa integrin beta-3 subunit
 32 <220> FEATURE:
 33 <221> NAME/KEY: Variant
 34 <222> LOCATION: (1)...(66)
 35 <223> OTHER INFORMATION: Xaa = any amino acid
 37 <220> FEATURE:
 38 <221> NAME/KEY: Variant
 39 <222> LOCATION: (41)...(48)
 40 <223> OTHER INFORMATION: This segment of any amino acids can be from
 41 zero to eight amino acids long.
 43 <220> FEATURE:
 44 <221> NAME/KEY: Variant
 45 <222> LOCATION: (56)...(66)
 46 <223> OTHER INFORMATION: This segment of any amino acids can be from
 47 zero to eleven amino acids long.
 49 <400> SEQUENCE: 1
 50 Lys Leu Leu Leu Thr Thr His Asp Arg Lys Glu Phe Ala Lys Phe Glu
 51 1 5 10 15
 53 Glu Glu Arg Ala Arg Ala Lys Trp Asp Thr Ala Asn Asn Pro Leu Tyr
 54 20 25 30
 W--> 56 Lys Glu Ala Thr Ser Thr Phe Thr Xaa Xaa Xaa Xaa Xaa Xaa Xaa
 57 35 40 45
 59 Asn Ile Thr Tyr Arg Gly Thr Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
 60 50 55 60
 62 Xaa Xaa



RAW SEQUENCE LISTING DATE: 07/30/2004
 PATENT APPLICATION: US/09/673,302E TIME: 11:08:22

Input Set : A:\PTO.AMC.txt
 Output Set: N:\CRF4\07302004\I673302E.raw

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63 65
66 <210> SEQ ID NO: 2
67 <211> LENGTH: 66
68 <212> TYPE: PRT
69 <213> ORGANISM: Mus musculus
71 <220> FEATURE:
72 <223> OTHER INFORMATION: Segment of integrin beta-6 subunit
74 <220> FEATURE:
75 <221> NAME/KEY: Variant
76 <222> LOCATION: (1)...(66)
77 <223> OTHER INFORMATION: Xaa = any amino acid
79 <220> FEATURE:
80 <221> NAME/KEY: Variant
81 <222> LOCATION: (41)...(48)
82 <223> OTHER INFORMATION: This segment of any amino acids can be from
83 zero to eight amino acids long.
86 <400> SEQUENCE: 2
87 Lys Leu Leu Val Ser Phe His Asp Arg Lys Glu Val Ala Lys Phe Glu
88 1 5 10 15
90 Ala Glu Arg Ser Lys Ala Lys Trp Gln Thr Gly Thr Asn Pro Leu Tyr
91 20 25 30
W--> 93 Arg Gly Ser Thr Ser Thr Phe Lys Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
94 35 40 45
96 Asn Val Thr Tyr Lys His Arg Glu Lys Gln Lys Val Asp Leu Ser Thr
97 50 55 60
99 Asp Cys
100 65
103 <210> SEQ ID NO: 3
104 <211> LENGTH: 66
105 <212> TYPE: PRT
106 <213> ORGANISM: Mus musculus
108 <220> FEATURE:
109 <223> OTHER INFORMATION: Segment of integrin beta-1 subunit
111 <220> FEATURE:
112 <221> NAME/KEY: Variant
113 <222> LOCATION: (1)...(66)
114 <223> OTHER INFORMATION: Xaa = any amino acid
116 <220> FEATURE:
117 <221> NAME/KEY: Variant
118 <222> LOCATION: (41)...(48)
119 <223> OTHER INFORMATION: This segment of any amino acids can be from
120 zero to eight amino acids long.
122 <220> FEATURE:
123 <221> NAME/KEY: Variant
124 <222> LOCATION: (56)...(66)
125 <223> OTHER INFORMATION: This segment of any amino acids can be from
126 zero to eleven amino acids long.
128 <400> SEQUENCE: 3
129 Lys Leu Leu Met Leu Ile His Asp Arg Arg Glu Glu Ala Lys Glu Glu

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RAW SEQUENCE LISTING DATE: 07/30/2004
 PATENT APPLICATION: US/09/673,302E TIME: 11:08:22

Input Set : A:\PTO.AMC.txt
 Output Set: N:\CRF4\07302004\I673302E.raw

```

130   1           5           10           15
132 Lys Glu Lys Met Asn Ala Lys Trp Asp Thr Gly Glu Asn Pro Ile Tyr
133           20           25           30
W--> 135 Lys Ser Ala Val Thr Thr Val Val Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
136           35           40           45
138 Asn Pro Lys Tyr Glu Gly Lys Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
139           50           55           60
141 Xaa Xaa
142   65
145 <210> SEQ ID NO: 4
146 <211> LENGTH: 66
147 <212> TYPE: PRT
148 <213> ORGANISM: Mus musculus
150 <220> FEATURE:
151 <223> OTHER INFORMATION: Segment of integrin beta-5 subunit
153 <220> FEATURE:
154 <221> NAME/KEY: Variant
155 <222> LOCATION: (1)...(66)
156 <223> OTHER INFORMATION: Xaa = any amino acid
158 <220> FEATURE:
159 <221> NAME/KEY: Variant
160 <222> LOCATION: (58)...(66)
161 <223> OTHER INFORMATION: This segment of any amino acids can be from
162     zero to nine amino acids long.
164 <400> SEQUENCE: 4
165 Lys Leu Leu Val Thr Ile His Asp Arg Arg Glu Phe Ala Lys Phe Gln
166   1           5           10           15
168 Ser Glu Arg Ser Arg Ala Arg Tyr Glu Met Ala Ser Asn Pro Leu Tyr
169           20           25           30
171 Arg Lys Pro Ile Ser Thr His Thr Val Asp Phe Thr Phe Asn Lys Phe
172           35           40           45
W--> 174 Asn Lys Ser Tyr Asn Gly Thr Val Asp Xaa Xaa Xaa Xaa Xaa Xaa Xaa
175           50           55           60
177 Xaa Xaa
178   65
181 <210> SEQ ID NO: 5
182 <211> LENGTH: 66
183 <212> TYPE: PRT
184 <213> ORGANISM: Mus musculus
186 <220> FEATURE:
187 <223> OTHER INFORMATION: Segment of integrin beta-2 subunit
189 <220> FEATURE:
190 <221> NAME/KEY: Variant
191 <222> LOCATION: (1)...(66)
192 <223> OTHER INFORMATION: Xaa = any amino acid
194 <220> FEATURE:
195 <221> NAME/KEY: Variant
196 <222> LOCATION: (41)...(48)
197 <223> OTHER INFORMATION: This segment of any amino acids can be from

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RAW SEQUENCE LISTING DATE: 07/30/2004
PATENT APPLICATION: US/09/673,302E **TIME:** 11:08:22

Input Set : A:\PTO.AMC.txt
Output Set: N:\CRF4\07302004\I673302E.raw

198 zero to eight amino acids long.
200 <220> FEATURE:
201 <221> NAME/KEY: Variant
202 <222> LOCATION: (56)...(66)
203 <223> OTHER INFORMATION: This segment of any amino acids can be from
204 zero to eleven amino acids long.
206 <400> SEQUENCE: 5
207 Lys Ala Leu Thr His Leu Ser Asp Leu Arg Glu Tyr Arg Arg Phe Glu
208 1 5 10 15
W--> 210 Lys Glu Lys Leu Lys Ser Gln Trp Asn Asn Asp Xaa Asn Pro Leu Phe
211 20 25 30
213 Lys Ser Ala Thr Thr Val Met Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
214 35 40 45
216 Asn Pro Lys Phe Ala Glu Ser Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
217 50 55 60
219 Xaa Xaa
220 65
223 <210> SEQ ID NO: 6
224 <211> LENGTH: 66
225 <212> TYPE: PRT
226 <213> ORGANISM: Mus musculus
228 <220> FEATURE:
229 <223> OTHER INFORMATION: Segment of integrin beta-7 subunit
231 <220> FEATURE:
232 <221> NAME/KEY: Variant
233 <222> LOCATION: (1)...(66)
234 <223> OTHER INFORMATION: Xaa = any amino acid
236 <220> FEATURE:
237 <221> NAME/KEY: Variant
238 <222> LOCATION: (41)...(48)
239 <223> OTHER INFORMATION: This segment of any amino acids can be from
240 zero to eight amino acids long.
242 <220> FEATURE:
243 <221> NAME/KEY: Variant
244 <222> LOCATION: (61)...(66)
245 <223> OTHER INFORMATION: This segment of any amino acids can be from
246 zero to six amino acids long.
248 <400> SEQUENCE: 6
249 Arg Leu Ser Val Glu Ile Tyr Asp Arg Arg Glu Tyr Ser Arg Phe Glu
250 1 5 10 15
252 Lys Glu Gln Gln Leu Asn Trp Lys Gln Asp Ser Asn Pro Leu Tyr
253 20 25 30
W--> 255 Lys Ser Ala Ile Thr Thr Ile Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
256 35 40 45
258 Asn Pro Arg Phe Gln Glu Ala Asp Ser Pro Thr Leu Xaa Xaa Xaa Xaa
259 50 55 60
261 Xaa Xaa
262 65
265 <210> SEQ ID NO: 7

RAW SEQUENCE LISTING DATE: 07/30/2004
PATENT APPLICATION: US/09/673,302E TIME: 11:08:22

Input Set : A:\PTO.AMC.txt
Output Set: N:\CRF4\07302004\I673302E.raw

266 <211> LENGTH: 65
267 <212> TYPE: PRT
268 <213> ORGANISM: Artificial Sequence
270 <220> FEATURE:
271 <223> OTHER INFORMATION: Description of Artificial Sequence: Consensus
272 sequence for segment of integrin beta subunits
274 <220> FEATURE:
275 <221> NAME/KEY: Variant
276 <222> LOCATION: (1)...(65)
277 <223> OTHER INFORMATION: Xaa = any amino acid
279 <220> FEATURE:
280 <221> NAME/KEY: Variant
281 <222> LOCATION: (41)...(48)
282 <223> OTHER INFORMATION: This segment of any amino acids can be from
283 zero to eight amino acids long.
285 <220> FEATURE:
286 <221> NAME/KEY: Variant
287 <222> LOCATION: (56)...(65)
288 <223> OTHER INFORMATION: This segment of any amino acids can be from
289 zero to ten amino acids long.
291 <400> SEQUENCE: 7
W--> 292 Lys Leu Leu Val Xaa Ile His Asp Arg Arg Glu Phe Ala Lys Phe Glu
293 1 5 10 15
295 Xaa Glu Xaa Xaa Xaa Ala Xaa Trp Xaa Xaa Xaa Xaa Asn Pro Leu Tyr
296 20 25 30
298 Lys Xaa Ala Xaa Xaa Thr Xaa
299 35 40 45
301 Asn Xaa Xaa Tyr Xaa
302 50 55 60
304 Xaa
305 65

RAW SEQUENCE LISTING ERROR SUMMARY DATE: 07/30/2004
PATENT APPLICATION: US/09/673,302E TIME: 11:08:23

Input Set : A:\PTO.AMC.txt
Output Set: N:\CRF4\07302004\I673302E.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:1; Xaa Pos. 41,42,43,44,45,46,47,48,56,57,58,59,60,61,62,63,64,65,66
Seq#:2; Xaa Pos. 41,42,43,44,45,46,47,48
Seq#:3; Xaa Pos. 41,42,43,44,45,46,47,48,56,57,58,59,60,61,62,63,64,65,66
Seq#:4; Xaa Pos. 58,59,60,61,62,63,64,65,66
Seq#:5; Xaa Pos. 28,41,42,43,44,45,46,47,48,56,57,58,59,60,61,62,63,64,65
Seq#:5; Xaa Pos. 66
Seq#:6; Xaa Pos. 41,42,43,44,45,46,47,48,61,62,63,64,65,66
Seq#:7; Xaa Pos. 5,17,19,20,21,23,25,26,27,28,34,36,37,39,40,41,42,43,44,45
Seq#:7; Xaa Pos. 46,47,48,50,51,53,54,55,56,57,58,59,60,61,62,63,64,65

VERIFICATION SUMMARY

PATENT APPLICATION: US/09/673,302E

DATE: 07/30/2004

TIME: 11:08:23

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF4\07302004\I673302E.raw

L:56 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:32
M:341 Repeated in SeqNo=1
L:93 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2 after pos.:32
L:135 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3 after pos.:32
M:341 Repeated in SeqNo=3
L:174 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4 after pos.:48
M:341 Repeated in SeqNo=4
L:210 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5 after pos.:16
M:341 Repeated in SeqNo=5
L:255 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6 after pos.:32
M:341 Repeated in SeqNo=6
L:292 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7 after pos.:0
M:341 Repeated in SeqNo=7



IFW16

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/673,302E

DATE: 07/29/2004

TIME: 09:41:23

Input Set : A:\sequene listing 5-04.txt
 Output Set: N:\CRF4\07292004\I673302E.raw

3 <110> APPLICANT: Millennium Pharmaceuticals, Inc.
 4 Law, Deborah Ann
 5 Phillips, David R.
 7 <120> TITLE OF INVENTION: Transgenic Mice Expressing Mutant GP IIIa (beta-3) Protein
 9 <130> FILE REFERENCE: MPI98-148P1USM
 11 <140> CURRENT APPLICATION NUMBER: US 09/673,302E
 12 <141> CURRENT FILING DATE: 2001-03-23
 14 <150> PRIOR APPLICATION NUMBER: US 60/115,516
 15 <151> PRIOR FILING DATE: 1998-04-15
 17 <150> PRIOR APPLICATION NUMBER: PCT/US99/08285
 18 <151> PRIOR FILING DATE: 1999-04-15
 20 <160> NUMBER OF SEQ ID NOS: 7
 22 <170> SOFTWARE: PatentIn Ver. 2.1

ERRORED SEQUENCES

P.2
*Does Not Comply
 Corrected Diskette Needed*

265 <210> SEQ ID NO: 7
 266 <211> LENGTH: 65
 267 <212> TYPE: PRT
 268 <213> ORGANISM: Artificial Sequence
 270 <220> FEATURE:
 271 <223> OTHER INFORMATION: Description of Artificial Sequence: Consensus
 272 sequence for segment of integrin beta subunits
 274 <220> FEATURE:
 275 <221> NAME/KEY: Variant
 276 <222> LOCATION: (1)...(65)
 277 <223> OTHER INFORMATION: Xaa = any amino acid
 279 <220> FEATURE:
 280 <221> NAME/KEY: Variant
 281 <222> LOCATION: (41)...(48)
 282 <223> OTHER INFORMATION: This segment of any amino acids can be from
 283 zero to eight amino acids long.
 285 <220> FEATURE:
 286 <221> NAME/KEY: Variant
 287 <222> LOCATION: (56)...(65)
 288 <223> OTHER INFORMATION: This segment of any amino acids can be from
 289 zero to ten amino acids long.
 291 <400> SEQUENCE: 7
 W--> 292 Lys Leu Leu Val Xaa Ile His Asp Arg Arg Glu Phe Ala Lys Phe Glu
 293 1 5 10 15
 W--> 295 Xaa Glu Xaa Xaa Xaa Ala Xaa Trp Xaa Xaa Xaa Xaa Asn Pro Leu Tyr
 296 20 25 30

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/673,302E

DATE: 07/29/2004

TIME: 09:41:23

Input Set : A:\sequene listing 5-04.txt
Output Set: N:\CRF4\07292004\I673302E.raw

W--> 298 Lys Xaa Ala Xaa Xaa Thr Xaa
299 35 40 45
W--> 301 Asn Xaa Xaa Tyr Xaa
302 50 55 60
W--> 304 Xaa
305 65
E--> 306 - 1 -

VERIFICATION SUMMARY

PATENT APPLICATION: US/09/673,302E

DATE: 07/29/2004

TIME: 09:41:24

Input Set : A:\sequene listing 5-04.txt
Output Set: N:\CRF4\07292004\I673302E.raw

L:56 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:32
L:59 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:48
L:62 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:64
L:93 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2 after pos.:32
L:135 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3 after pos.:32
L:138 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3 after pos.:48
L:141 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3 after pos.:64
L:174 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4 after pos.:48
L:177 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4 after pos.:64
L:210 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5 after pos.:16
L:213 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5 after pos.:32
L:216 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5 after pos.:48
L:219 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5 after pos.:64
L:255 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6 after pos.:32
L:258 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6 after pos.:48
L:261 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6 after pos.:64
L:292 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7 after pos.:0
L:295 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7 after pos.:16
L:298 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7 after pos.:32
L:301 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7 after pos.:48
L:304 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7 after pos.:64
L:306 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:7